

Form PTO-1449 U.S. Dept. of Commerce Patent & Trademark Office	ATTY. DOCKET NO. 1719F US	<div style="text-align: right;"> 531 Rec'd PCT/F 25 MAY 2001 </div> SERIAL NO. NYA 09/856987
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	APPLICANT PANG, I k-hou	
	FILING DATE May 25, 2001	GROUP NYA

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
2-F	AA	4,550,022	10.29.85	Garabedian, et al.	424	127	
2-F	AB	5,641,750	06.24.97	Louis	514	12	
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
2-F	AL	98/10758	10.03.98	PCT			X
	AM						X
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
2-F	AR	Van Buskirk, et al., "Predicted outcome from hypotensive therapy for glaucomatous optic neuropathy," <u>Am. J. Ophthalmol.</u> , Vol. 116(5):636-640, (1993).					
2-F	AS	Schumer, et al., "The nerve of glaucoma!," <u>Arch. Ophthalmol.</u> , Vol. 112:37-44, (1994).					
2-F	AT	Raff, et al., "Programmed cell death and the control of cell survival: lessons from the nervous system," <u>Science</u> , Vol. 262:695-700, (1993).					

EXAMINER <i>Robert Fay</i>	DATE CONSIDERED 2/15/02
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	BL							
	BM							
	BN							
	BO							
	BP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.F	BR ✓	Anderson, et al., "Effect of intraocular pressure on rapid axoplasmic transport in monkey optic nerve," <u>Invest. Ophthalmol.</u> , Vol. 13(10):771-783, (1974).
2.F	BS ✓	Quigley, et al., "The dynamics and location of axonal transport blockade by acute intraocular pressure elevation in primate optic nerve," <u>Invest. Ophthalmol.</u> , Vol. 15(8):606-616, (1976).
2.F	BT ✓	Mansour-Robaey, et al., "Effects of ocular injury and administration of brain-derived neurotrophic factor on survival and regrowth of axotomized retinal ganglion," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 91:1632-1636, (1994).

EXAMINER <i>Zabur Fay</i>	DATE CONSIDERED <i>2/15/02</i>
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	CM					
	CN					
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	CP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Z.F	CR <input checked="" type="checkbox"/>	Meyer-Franke, et al., "Characterization of the signaling interactions that promote the survival and growth of developing retinal ganglion cells in culture," <u>Neuron</u> , Vol. 15:805-819, (1995).
Z.F	CS <input checked="" type="checkbox"/>	Cui, et al., "NT-4/5 reduces naturally occurring retinal ganglion cell death in neonatal rats," <u>Neuroreport</u> , Vol. 5(15):1882-1884, (1994).
Z.F	CT <input checked="" type="checkbox"/>	Lewin, et al., "Physiology of the neurotrophins," <u>Ann. Rev. Neurosci.</u> , Vol. 19:289-317, (1996).

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Zaburk Fag</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">2/15/02</div>
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							YES	NO
DL	Patent No.							
DM								
DN								
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DP								

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2if	DR	✓	Segal, et al., "Intracellular signaling pathways activated by neurotrophic factors," <u>Ann. Rev. Neurosci.</u> , Vol. 19:463-489, (1996).
2if	DS	✓	Ebadi, et al., "Neurotrophins and their receptors in nerve injury and repair," <u>Neurochem Int.</u> , Vol. 30(4/5):347-374, (1997).
2if	DT	✓	Kaplan, et al., "Signal transduction by the neurotrophin receptors," <u>Curr. Opin. Cell Biol.</u> , Vol. 9:213-221, (1997).

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	EL	Patent No.				
	EM					
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	EP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	ER	Jelsma, et al., "Different forms of the neurotrophin receptor trkB mRNA predominate in rat retina and optic nerve," <u>J. Neurobiol.</u> , Vol. 24(9):1207-1214, (1993).
2.f	ES	Rickman, et al., "Expression of the protooncogene, <i>trk</i> , receptors in the developing rat retina," <u>Vis. Neurosci.</u> , Vol. 12:215-222, (1995).
2.f	ET	Ugolini, et al., "TrkA, TrkB and p75 mRNA expression is developmentally regulated in the rat retina," <u>Brain Res</u> , Vol. 704:121-124, (1995).

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						YES NO
	FL	Patent No.				
	FM					
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	FR ✓	Cellerino, et al., "Brain-derived neurotrophic factor/neurotrophin-4 receptor TrkB is localized on ganglion cells and Dopaminergics amacrine cells in the vertebrate retina," <u>J. Comp. Neurol.</u> , Vol. 386:149-160, (1997).
2.f	FS ✓	Gao, et al., "Elevated mRNA expression of brain-derived neurotrophic factor in retinal ganglion cell layer after Optic nerve injury," <u>Invest. Ophthalmol. Vis. Sci.</u> , Vol. 38(9):1840-1847, (1997).
2.f	FT ✓	Lindholm, et al., "Brain-derived neurotrophic factor is a survival factor for cultured rat cerebellar granule neurons and protects them against glutamate-induced neurotoxicity," <u>Eur. J. Neurosci.</u> , Vol. 5:1455-1464, (1993).

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	GM						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
2.f	HR	<input checked="" type="checkbox"/> Unoki, et al., "Protection of the rat retina from ischemic injury by brain-derived neurotrophic factor, ciliary Neurotrophic factor, and basic fibroblast growth factor," <u>Invest. Ophthalmol. Vis. Sci.</u> , Vol. 35(3):907-915, (1994).
2.f	HS	<input checked="" type="checkbox"/> Beck, et al., "Brain-derived neurotrophic factor protects against ischemic cell damage in the rat hippocampus," <u>J. Cereb. Blood Flow Metab.</u> , Vol. 14:689-692, (1994).
2.f	HT	<input checked="" type="checkbox"/> Kirsch, et al., "Evidence for multiple, local functions of ciliary neurotrophic factor (CNTF) in retinal development: expression of CNTF and its receptors and in vitro....," <u>J. Neurochem.</u> , Vol. 68(3):979-990, (1997).

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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	IN					
	IO					
	IP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2-f	IR	✓	Mey, et al., "Intravitreal injections of neurotrophic factors support the survival of axotomized retinal ganglion cells in adult rats in vivo," <u>Brain Res.</u> , Vol. 602:304-317, (1993).
2-f	IS	✓	Weibel, et al., "Brain-derived neurotrophic factor (BDNF) prevents lesion-induced axonal die-back in young rat optic nerve," <u>Brain Res.</u> , Vol. 679:249-254, (1995).
2-f	IT	✓	Graul & Castaner, "AIT-082," <u>Drugs of the Future</u> , Vol. 22(9):945-947, (1997).

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
	JL	Patent No.				
	JM					
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	JR ✓	Nabeshima, et al., "Oral administration of NGF synthesis stimulators recovers reduced brain NGF content in aged rats and cognitive dysfunction in basal-forebrain-lesioned rats," <u>Gerontology</u> , Vol. 40(2):46-56, (1994).
2.f	JS ✓	Matsui, et al., "Protective effects of ONO-2506 on neurological deficits and brain infarct volume following 1 week of permanent occlusion of middle cerebral.....," <u>Society for Neurosci. Abstracts</u> , Vol. 24:254, (1998).
2.f	JT ✓	Gronborg, et al., "Neuroprotection by a novel compound, NS521," <u>Society for Neurosci. Abstracts</u> , Vol. 24:1551, (1998).

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Zuhair Fay</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">2/15/02</div>
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						YES NO
	KL	Patent No.				
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	KR ✓	Aimone, et al., "The 1 α ,25(OH) ₂ D ₃ analog CB-1093 induces nerve growth factor in non-human primate brain," <u>Society for Neurosci. Abstracts</u> , Vol. 24:292, (1998).
2.f	KS ✓	Culmsee, et al., "NGF antisense oligonucleotide blocks protective effects of clenbuterol against glutamate-Induced excitotoxicity in vitro and focal cerebral.....," <u>Society for Neurosci. Abstracts</u> , Vol. 24:295, (1998).
2.F	KT ✓	Takahashi, N. et al., "Rat retinal ganglion cells in culture," <u>Exp. Eye Res.</u> , Vol. 53:565-572, (1991).

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						YES NO
	LL	Patent No.				
	LM					
	LN					
	LO					
	LP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Z-F	LR ✓	Shinoda, et al., "Stimulation of nerve growth factor synthesis/secretion by propentofylline in cultured mouse astroglial cells," <u>Biochem. Pharmacol.</u> , Vol. 39(11):1813-1816, (1990).
Z-F	LS ✓	Nabeshima, et al., "Impairment of learning and memory and the accessory symptom in aged rat as senile dementia model: oral administration of propentofylline...", <u>Jpn. J. Psychol. Pharmacol.</u> , Vol. 13:89-95, (1993).
Z-F	LT ✓	<u>Ophthalmic Surgery</u> : Principles of Practice, Ed., G.L. Spaeth, W.B. Sanders Co., Philadelphia, PA, U.S.A., Page 85-87, (1990).

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Robert Fay	2/15/02

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	ML	Patent No.				
	MM					
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	MO					
	MP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.F	MR ✓	Hammes, et al., "Nerve growth factor prevents both neuroretinal programmed cell death and capillary pathology In experimental diabetics," <u>Molecular Medicine</u> , Vol. 1(5):527-534, July 1995.
2.F	MS ✓	Rathbone, et al., "Physiology and pharmacology of natural and synthetic nonadenine-based purines in the nervous system," <u>Drug Development Research</u> , Vol. 45:356-372, (1998).
2.F	MT ✓	Takeda Chem Ind, Ltd., "New drug prevent treat diabetes complicated comprise benzoquinone hydroquinone form treat....," Derwent Publications, Ltd., London XP-002136481 & JP 05 009114A, 19 January 1993 abstract

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					YES NO
NL					
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NO					
NP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	NR	✓	Yamamoto, et al., "Neuroprotective effect of 4 ¹ -(4-methylphenyl)-2,2 ¹ :6 ¹ ,2-terpyridine trihydrochloride, a novel inducer of nerve growth factor," <u>Life Sciences</u> , Vol. 59(25/26):2139-2146, (1996).
2.f	NS	✓	Nitta, et al., "Oral administration of idebenone induces nerve growth factor in the brain and improves learning..," <u>Archives of Pharmacology</u> , Vol. 349:401-407, (1994).
2.f	NT	✓	Culmsee, et al., "Neuroprotection by drug-induced growth factors," <u>Pharmacology of Cerebral Ischemia</u> , 7 th , Pages 333-348, (1999).

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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	OL	Patent No.				
	OM					
	ON					
	OO					
	OP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	OR ✓	Semkova, et al., "Clenbuterol protects mouse cerebral cortex and rat hippocampus from ischemic damage and attenuates glutamate neurotoxicity in cultured hippocampal...", <u>Brain Research</u> , Vol. 717:44-54, (1996).
2.f	OS ✓	Riaz, et al., "A vitamin D ₃ derivative (CB1093) induces nerve growth factor and prevents neurotrophic deficits in streptozotocin-diabetic rats," <u>Diabetologia</u> , Vol. 42:1308-1313, (1999).
2.f	OT ✓	Gronborg, et al., "Neuroprotection by a novel compound, NS521 ¹ ," <u>The Journal of Pharmacology and Experimental Therapeutics</u> , Vol. 290(1):348-353, (1999).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	PA	Patent No.	Date	Inventors	Class	Subclass
	PB					
	PC					
	PD					
	PE					
	PF					
	PG					
	PH					
	PI					
	PJ					
	PK					

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
PL	Patent No.				
PM					
PN					
PO					
PP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f 2.f	PR ✓	Middlemiss, P. J., et al., (Geerts, Hugo), "AIT - 082, a unique purine derivative, enhances nerve growth factor mediated neurite outgrowth from PCI cells," <u>NeuroScience Letters</u> , (XP-000905256), Vol. 199(2):131-4., page 402, col. 1, paragraph 6 – Col. 2, paragraph 3, and Page 403, Col. 1, paragraph 3.
	PT	

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Zaburk Fg</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">2/18/02</div>
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